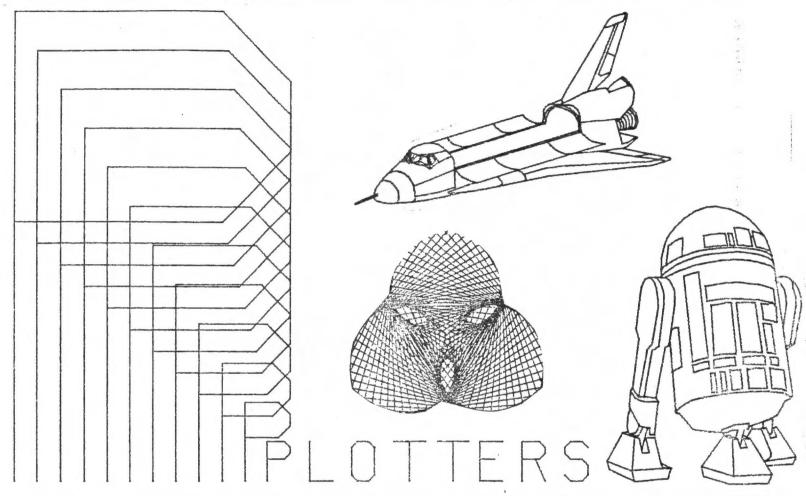
SEPTEMBER

1986

### PUBLISHED BY THE GREATER CLEVELAND SINCLAIR USERS GROUP



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Mailing---- John Velek
Delivery--- Doug Sillespie
And many thanks to all the other
contributers that made it possible!

A short note to our friends from other newsletters and magazines. You are melcome to use any of our material, mems, adds, or programs if YOU: (1) Tell where it came from (RANTOP Cleveland, Ohio) and (2) The author's name that wrote the article. We would appreciate it if you would send us a copy of the memsletter that it appeared in! Unless otherwise notified we will do the same.

THANK YOU FOR YOUR INTEREST IN OUR MEMSLETTER!

#### T/S RESOURCES

\* news/rumors software literature hardware

New Spectrum & 2068 Products.

The new Amstrad/Sinclair

Microdrive cartridges which were in short supply for a while are now available again. A agree ment between the manufacturer, Ablex, and Sinclair research who owns the rights, was reached on continued sales directly by Ablex. Demand is for about 50 to 75,000 blank cartridges a month.

Saga Systems, a maker of after market keyboards for the Spectrum, is offering a hardware package called the "Compliment". It consists of a keyboard, 3.5" disk drive system, a near letter quality printer, and Saga's word processing software, "the Last Word". Their adds should be appearing in the forth coming issues of the UK magazines.

Tassman now has a version of Tassword III available for the Opus Discovery 3.5" disk system.

Cumana, a UK disk drive supplier is planning to market a "card" software interface for the spectrum, and other computers. This is a device that reads/records a magnetic coated card similiar in size to the average credit card. The cards can be programmed for almost any type of application. They will be available in four types, ROMS, PROMS, EPROMS, and RAMS.

Mark your calendars, the second annual mid-west T/S Computer Fest will be held in Indianapolis, Indiana, on the first weekend of May 1987. The core of organizers of the Cinncinatti show are preparing plans for the "reunion" of dealers, exhibiters, user groups and Sinclair fans from all over the USA. More details as they are made available.

inch Three disks, 2068 FDD disk drive system, are now in good supply again in the U.S. They are available from Zebra Systems, and Peripherals Direct.

In the September issue of Computer Shopper, Peripherals Direct has an add for the Amstrad 128K Computer System at \$599.00. The system includes moniter, printer, disk drives and Amstrads word processing software. CP/M software is also available for the machine.

### \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#### T/S RESOURCES

news/rumors hardware software literature Sept. 1986 by Andy Kosiorek Sept. 1986 by Andy Kosiorek

Cleveland Free Net:

The new Amstrad/Sinclair
Spectrum Plus 2 computer will be
on sale in the UK this month at
about £140.00. It is an enhanced
version of the Speccy 128, with
an on board tape deck, improved
Amstrad style keyboard, and joystick ports. Software houses
have had advance units since
about July.

This is Clevelands new megaboard BBS system, with 15
incoming lines that I described
in last months column.
Registration forms have now been
mailed to all who have requested
them. I will have also have some
Copies of the forms at the
Club's September meetings. Or
you can request one "on line".
The systems number is 368-3886. The systems number is 368-3886.
Area code 216. We have applied for a Timex/Sinclair SIG in the "Public Square section of the system. I hope to have this operational by early October.

TSU-BBS:

Don't forget, and please call our Sinclair BBS at 216-327-1099

Akron Computer Show:

I attended the Akron Computer show on August 23rd. Our Club had an excellant display. A big THANK YOU to Tom Simon and all of his assistents.

Second Annual Mid-West Timex/ Sinclair Computer Fest:

BYTE POWER:

Byte Power is a new cassette byte Power is a new cassette based magazine for the 2068. Each tape will have programs ranging from arcade games to business programs. Sample issue is \$5.50. Six issues are \$29.99. Subscriptions to; Byte Power, 1748 Meadowview Ave., Pickering, Ontario, Canada. LIV 368.

\*\*\*\*\*\*\*\*

Just recently I got my hands on a COMSCRIBER I PLOTTER, I couldn't resist!! It's manufactured by Enter Computer as the SWEET PEA PLOTTER, and is sold to HEATHKIT and EPSON under their own names. The original list was \$795 and is now being sold for \$179. It is very fast and highly accurate at 6 inches per second and accuracy to 8.004''of an inch. The unit is light and small enough to fit in a standard briefcase.

The PLOTTER is controlled by simple commands you enter into your computer useing LPRINT statements. All geometric shapes and alphanumeric characters are drawn by a combination of pen and paper movement. The pen travels in a holder across a track, while the paper moves back and forth via precision pinchwheel grip drives.

It was fairly easy to make up the INTERFACE CABLE and mate it up with the TASMAN PRINTER INTERFACE. Instead of useing the TASMAN software, I found it works great with the OS-64 CARTRIDGE from ZEBRA. I'm sure it will work with any of the interfaces.

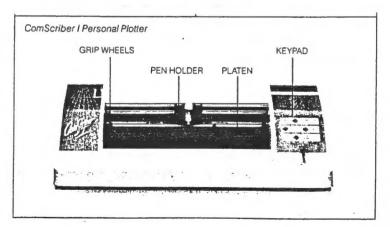
There are 12 keyboard controls PEN UP, PEN DOWN, FOUR ARROW KEYS for position, FAST for pen speed, UPPER RIGHT, LOWER LEFT, PAUSE, SELF TEST, and PEN DELAY. There are allso 19 computer controlled commands Axis-X, Axis-Y, Character size, Draw absolute, Draw relative, Home, Line, Mark, Move absolute, Move relative, Pen down, Pen up, Point, Reset, Rotate text, Text, Text delimeter, Velocity setting for pen speed, and Page length which can be anything from 2 inches to roll paper 10 foot long.

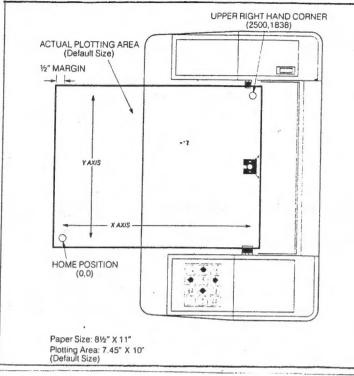
The PLOTTING AREA when useing 8 1/2\*11 paper is X(2508) by Y(1838) pixels. The amazing part is it has enough memory to handle a PLUS or MINUS 32768 in either the X or Y AXIS, this is where the 10 foot roll of paper comes in. If your plotting is off of the normal size paper (useing some wild graphics program) the PEN will merely lift up and then come back down in the right position when back into the normal plotting area. NO CRASHES!!!

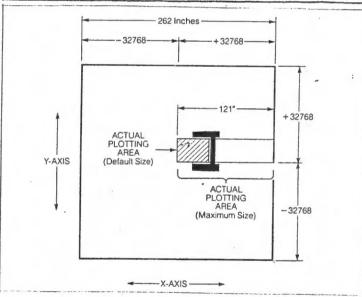
As you can see from the front cover you can make the TEXT any size you want including the GRAPHICS.

I bought the auxilary package which came with four colored pens an interface cable (I didn't use), and an Epson disk with many programs on it for the PLOTTER. A friend of mine, Dave Elliot, dumped all of the programs to hard copy for me. You can see some of the results on the front cover.THANKS DAVE!!!!!!!! All of the programs are easily converted to TIMEX LOGO.

HOPE TO SEE MORE PLOTTERS OUT THERE SOON !!!!!!







## Small bit of news:

As many of you know, our Treasurer, Robert Parish, is handling our bank account. He was keeping the club records with his 2068 but he just sold it to one of our RAMTOP subscribers. (John Poland) I hope he will attend meetings! Anyway, I will now be keeping the records since I also print the labels. Bob will STILL be the treasurer unless he wants to give that up which I sure that he doesn't. He is still turning on his HOST BBS for messages only. Checks must still go to ROBERT PARISH. If you need information about another member such as a phone\* or address, call James 6. DuPuy.

### QoLumn

#### by Gabe Schaffer

contracted and an analysis of the second and a second and

Hi, all! This time, as promised, will be the conclusion the review of Easel, with some of the more important mands and interesting problems. But first, if you have comments, please write to:

Gabe Schaffer 2599 Saybrook Rd. Univ. Hts., Dhio 44118

#### 

#### DEFAULTS:

This lets you change the amount of characters per line and the amount of colors available. There are three settings: 40 characters per line and all 8 colors, 64 characters per line and only 4 colors, and 80 characters ser line and 4 colors.

#### FILES:

This allows you to make a backup of a file, delete a le, import data to a file, export data from a file, and that a microdrive cartridge. As far as I know, everything a file command allows you to do can be done with whatever tage medium you are using. (All I have are the two lt-in microdrives, so I wouldn't really know.)

#### HIGHLIGHT:

This highlights data on your graph. Easel will not let enter this mode if the current set of values is resented by a line. If the current set of values is resented by bars, you are allowed a choice of alighting all of the negative values, or selecting justingle value (a highlighted bar is distinguished by a reselected pattern.)

If the current format is a pie graph (where negative ses can't be shown), you can only highlight a single a (a highlighted segment is 'pulled out' of the pie). can also delete a highlighted value.

#### NEWDATA.

This creates a new set of values (which can easily be with a simple formula in immediate mode).

#### OLDDATA:

This allows you to change the current set of values.

#### PRINT:

This will make a screen dump to either a printer or a some problems which will be discussed in the next tion.

#### VIEW:

This command lets you view any or all sets of values in any one of the 8 formats. When you view more than one set of values and you choose a format lower than 7, a key is used (discussed last month). If you decide to view your values in format 7 (a pie graph), where only one set of values can be displayed at a time, (only the current set or the first set of values typed in), a key is not needed.

# EDVERFREDERE DE DE LE COMPTE DE LE COMPTE DE LE COMPTE DE LE COMPTE DE LA COMPTE DEL COMPTE DE LA COMPTE DEL COMPTE DE LA COMPTE DE LA

In this section, I will discuss the problems with the EDIT, CHANGE and PRINT commands.

#### EDIT:

With EDIT, there's only one problem, but it pervades almost everything EDIT can do. The problem is that anything that can be positioned is pasted wherever you put it. This may not sound like much, but if you change the size of the graph or the amount of characters per line, or print the graph, anything that needs positioning is not at the same place it is on the screen.

#### CHANGE:

There are two problems with changing the format from a vertical graph to a horizontal one (or the other way around). The first problem is like the one above, in that text for one format may not be suitable for another, because the graph changes and the text doesn't. Also, the axis labels don't move while the axis values do.

The other problem occurs when changing from a vertical to a horizontal format. Normally, the x- and y-axis origins are at the lower left corner of the grid, so that the y-values increase toward the top and x-values increase toward the right. Values entered into Easel produce a vertical bar graph that follows this convention. However, when a horizontal bar graph is reguested, the x-values are rotated to the y-axis such that the origin moves to the top - i.e. the bars that previously ran left-to-right are now top-to-bottom, rather than bottom-to-top. If you don't want the data displayed like this, you will have to type it in with the last value first and the first value last. But if you do, and you switch to a vertical format, the values will be backwards again.

#### PRINT.

There are also two problems with PRINT, which are the fact that the graph is enlarged to print (resulting in the same problem described for EDIT) and the color coding - on the printer, all the white is black and vice versa (green and red each have distinguishable patterns).

Easel is a very good and very easy-to-use program, and it comes free with the computer. There are even many things I did not include in this review (e.g. formulae) because it would be too long.

In the future I will review others of the four bundled software packages.

Here is a short program. Just type it in and run it.

100 OPEN #3,scr\_512x256a0x0:MODE 4:SCALE #3,300,5,4:OVER #3,-1:REPeat circ:FOR f=1 TO 25:FILL #3,1:INK #3,RND(255):CIRCLE #3,RND(512),RND(256),RND(256):BEEF RND(32767),RND(255),RND(32 767),RND(7),RND(15),RND(15),RND(15):PAUSE 15:FILL #3,0:NEXT f :CLS#3:NEXT circ

110 REMark Try having MODE 8 and change the ink color (0 to 2 55)

## September Editorial

Howdy! Fall is on its way! It just so happens that Fall is my favorite season. As you can see, I am making an attempt to get back on a schedule. Let me tell you that I APPRICIATE ALL YOU FINE ARTICLES! I am sure that I speak for all of our readers also! I had planed to use material from several newsletters to make up most of the RAMTOP this month but many of you came through again! Again, a real warm THANKS!

Please remember that our newsletter is what it is solely because of the constant new material from our members! If you have a program or an article that you feel would be interesting, please send it to me! It would be a big help if you would send them using Tasword or Mscript. This will help a lot since I can load it in and print it using my SG-10. Send your articles to:

James G. DuPuy 6514 Bradley Ave.(DOWN) Parma, Ohio 44129 Phone: 216-661-4105

Be sure to type in the 2068 program! It is real NEAT! I got it from ZXAppeal, the newsletter the Vancover SUG. It will turn your monitor into a sort of low resolution ocilliscope. advantage is that you can get a hard copy! It takes the signal in the EAR jack. Caution! don't exceed 8-10 U.I James G. DuPuy "SPRITES 2068" with 34 page Manual by C. Vernon Tidwell and Ron R. Ruegg. Available from authors for \$20; soon to be featured by Zebra.

C. Vernon Tidwell, 1303 Whitehead St., Key West, FL 33040

Ron R. Ruegg, 37529 Perkins Rd., Prairieville, LA 70769

The authors set out to provide a program and manual for tyros to pros. Reading the manual set me on the scale at tyro immediately. Still, Vern Tidwell is known to me personally and I have already availed myself of their generous offer of support by requesting codes, etc., to transfer the cassette to my Zebra disk system. It came by return mail. Since these guys collaborated on the authorship by mail and phone, Ron Ruegg can only be also congenial.

A comprehensive program? Yes, they secured the cooperation of TIMEX COMPUTER CORPORATION (awesome) relative to the Sprite Graphics Support Package in the Timex 2068 Technical Manual I was not aware that TCC actually still existed beyond a holding company for patents and certainly thought that TCC, located up there in New England like the Cabots and the Lodges, spoke only to God. So, thorough, wes.

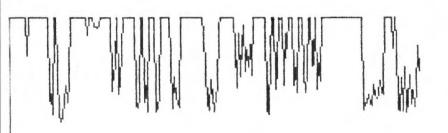
The Manual is a superb tutorial in graphics. If you are not a visual learner, you may not be so dependent upon bookish materials as I, but I ran the program, then read the manual, then ran the program again. There wasn't a total vacuum between my ears at the end of the first program run, but I had no idea of the power potential till I read the manual. In truth, the potential will not be reached without some application by the buyer. This is going to be an acquired skill like modeming-study, experiment.

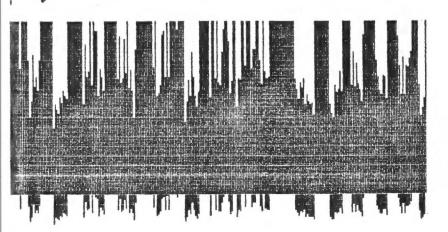
### A 2068 PROGRAM

This is a program that will transform your 2068, monitor and printer into a low resolution ocilliscope. You feed in the signal to be tested the EAR socket. YOU MUST BE SURE TO APPLY OVER 10 VOLTS! using your tape recorder OL a amp such as the one available at Radio Shack. (277-1008) It can be handu looking at the level of a tape you have had trouble joading finding a drop-out. Actually, Ι like to look at the display! Another nice thing is that you can hit SPACE bar and then the "C" key and get a copy on the 2040 printer! (or a full sized printer with the right driver)

Please note that you will get a staight line at the top of the screen if you don't have enough signal. Give it a try! It will only take you a short time to type it in and you might just get a real kick out of it!

My THANKS to the VANCOUVER SUG (ZXAppeal) for this program. I made a few changes to enhance it a bit.





1 REM from ZXAppeal, the Vancouver SUG newsletter.

2 REM This program was typed, test and modified a bit by; James G. DuPuy If YOU wrote the program, Flease let me know!

10 BORDER 1: POKE 23609,10

100 REM AUDIO SCAN

102 DEF FN a(1)=1+INT (.5+1/30)

103 GD SUB 410

105 GO TO 200

110 DRAW INK FN a(1/1.5); x-n, IN T (-1+y)/1.5: LET x=n: LET y=1: RETURN

120 DRAW INK FN a(1/1.5);0,-1/2 : RETURN

200 PAPER 0: INK 7: BRIGHT 1: C

210 PRINT AT 0,10; "Audioscan"

220 PRINT AT 2,2; "This program gives a graphic representation of a signal into the 2068

EAR socket.."

225 PRINT AT 7,2; "Load tape or ther signal source to the EAR socket and select option"

230 PRINT AT 12,5;"1 -- Line Graph"; AT 13,5;"2 -- Bar Graph"; AT 14,5;"3 -- Point Graph"

240 INPUT INVERSE 1; "Enter opti on (1-3): ";q: IF q<1 OR q>3 THE N GO TO 240

250 CLS : PRINT #1; INVERSE 1;"
SPACE to freeze scan": LET i\$=""
: LET x=0: LET y=0

252 ON ERR GO TO 270

255 FOR n=0 TO 255: LET 1=USR tone: PLOT n, INT (1/1.5)

260 IF q<3 THEN GD SUB 100+(q\*1 0)

265 LET i\$=INKEY\$: IF i\$=" " TH EN GO TO 300

270 NEXT n

275 GO TO 250

300 ON ERR RESET : PRINT #1; IN VERSE 1; "m=Menu r=Resume c=Copy e=End": FAUSE 0

310 LET is=INKEYs: IF is="m" THEN RUN

315 IF is="c" THEN COPY: CLS

320 IF is="r" THEN GO TO 270

330 IF is="e" THEN STOP

340 GD TD 300

400 DATA 1,0,255,17,0,0,219,254 203,119,32,1,19,16,247,66,75,20

410 LET tone=65368

420 FOR n=tone TO tone+17: READ d: POKE n,d: NEXT n: RETURN 425 STOP

430 SAVE "audioscan": RUN

this form and send it to the list for: \$15/Year or \$7.50/ 6 mo. to (Attend meetings, use library ta months to receive the RAMTOP only the RAMTOP! (The phone # is only	become a member of our Group pes Ect.) or: \$12/Year or \$6/ E y. Please <u>make checks pauable</u> to
*Please print! Enclosed: \$ *NAME:	
*STREET:  *CITY:  STreet:  *Type of computer(s) and periphe:	*
*  *  *  **  **  **  **  **  **  **  *	st/ Please send to: * ., Cleveland, OH 44135

It don month live to apparette to the White

### "TIMACHINE" - A sort of review

Let's face it, fellow members, all T/S buffs are NOT equal. As the famous author, George Orwell wrote in "1984," some are more equal than others. To be specific, some are profici ent in machine code and I am not.

"Timachine" by Novelsoft is a compiler program. It takes your Basic program and converts it to m/c. Why? To make it run faster, much faster. The docu- mentation is 52 pages - for those who are into m/c. If you are like me, the first 16 pages are enough to put you into business. The tape includes six examples which really show you how to get started.

One side of the tape is for the 2068 and the other for the Spectrum. Just load the tape. Then type in or load your Basic program. Add a line at the beginning of your program: REM! OPEN #. (Bet you never used this extended mode symbol shift 4 key before.) Run the program (in Basic) to make sure it works. Then compile by typing in: \*C. That's all to do!

You will get some funny stuff on the upper screen and some information near the bottom. The first bits of info can be skipped; just press any key to continue. After a few such prompts you will get instructions on how to save and load. This gives the address to be used in executing the machine code program, as follows: RANDO- MIZE USR xxxxx. And it works!

Not all Basic commands are supported by this program. They tell you which are not. If you have m/c as part of your own pro gram, you might have problems. If you are smart enough, the rest of the documentation will serve you well.

I am very satisfied with what I can use of this program. By the way, I bought mine through Dave Hoshor. Twist his arm to order yours.

Max Schoenfeld

## FLASH!!!

got a letter from A+. They ow selling the QL as a kit! It cludes: Tech manual. astruction manual, monitor adapter able, serial cable, complete QL it: 2 micro drives, case, keyboard. nd motherboard. Also included are crodrive cartridges and the power upply. The price: \$139.00! The addess is: A+ Computer Responce, 69-B; sland St., Keene, NH., none- 1-603-357-1800. They isa & MC. No mention was made about arranty so check with them!

ere is a LOAN program for the 1000/ 500/ZX-81. I tried it and it is a sod one! It's from the ZXAppeal.

AMOUNT OF LOAN: 10000 ANNUAL INTEREST RATE: 5.9 LOAN DURATION IN MONTHS: 12 PAYMENT= 850.21

INTEREST	PRINCIPAL	BALANCE
49.17	811.04	9188.96
45.18	815.03	8373.93
41.17	819.04	7554.89
37.14	823.07	6731.82
33.1	827.11	5904.71
29.03	831.18	5073.53
24.94	835.27	4238.25
20.84	839.37	3398.89
16.71	843.5	2555.39
12.55	847.65	1707.74
8.4	851.81	855.93
4.21	855.93	<b>©</b>
	4447394445 44473944445 44473948648	49.17 811.04 45.18 815.04 41.17 819.07 817.14 827.11 877.14 827.11 877.14 8337 877.11 8337 877.11 834 877.11 834 877.11 834 877.11 847.65 877.65

15 20 30 40	REM "LOAM" POKE 16513,234 PRINT "AMOUNT OF LOAN: "; INPUT A PRINT A PRINT A PRINT A
- 60 70 80 THS:	INPUT R PRINT R PRINT "LOAN DURATION IN MON "; INPUT M
19868888	PRINT M LET Z=(R/100)/12 LET D=(1+Z)**M LET D=1-(1/D) LET P=A*(Z/D) LET P=.01*INT (P*100+1) PRINT "PAYMENT= ";P PAUSE 1000 PRINT
	SCROLL
	IF R)A THEN LET R=A
".00" 290 E3)+( <1E3) (A<1E	PRINT AT 21,8;".00";TAB 18; ;TAB 29;".00" PRINT AT 21,0;I;TAB (4+(Y<1 Y<100)+(Y<10));Y;TAB (14+(R +(R<100)+(R<10));R;TAB (22+ (6)+(A<1E5)+(A<1E4)+(A<1E3)+ (0)+(A<10));A

From:

THE GREATER CLEVELAND SINCLAIR USERS GROUP James G. DuPuy (Editor) 6514 Bradley Ave.(Down) Parma, Ohio 44129

TO:

87/05/16

Kaczor, Jon 4568 Williamston Ave. Brooklyn, OH 44144